

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A heating device for a fluid line having an inner space configured to communicate fluid flow, the heating device comprising:

a heating element;
a holding device, adapted to couple the heating element to the fluid line; and
a projection, adapted to receive the heating element and be inserted in a well in the fluid line, wherein a well wall of the fluid line is contiguous to an inner space of the fluid line.

2. (Previously Presented) The heating device according to claim 1 wherein the holding device comprises an elastic clamping section, at least partially contiguous to an outer wall of the fluid line.

3. (Previously Presented) The heating device according to claim 2, further comprising a recess formed between the projection and the clamping section, wherein the recess at least partially receives the outer wall of the fluid line.

4. (Previously Presented) The heating device according to claim 1 wherein the heating element is preassembled in the holding device.

5. (Previously Presented) The heating device according to claim 1 wherein the heating element is formed in the shape of a plate.

6. (Previously Presented) The heating device according to claim 1 wherein:
the projection comprises a polygonal cross-section substantially transverse to the mounting direction; and
a flat side of the polygon faces the inner space of the fluid line.

7. (Previously Presented) The heating device according to claim 1, further comprising a PTC heating element.

8. (Previously Presented) The heating device according to claim 7, further comprising:
at least two electrically conducting contact plates wherein the PTC heating element is at least partially positioned between the conducting contact plates;
a plug connector; and
at least two connector contact lugs coupling the conducting contact plates to the plug connector.

9. (Previously Presented) The heating device according to claim 8 wherein the projection is formed by at least one electrically conducting contact plate.

10. (Previously Presented) The heating device according to claim 8 wherein at least one side of the projection is formed by a contact plate, configured to be contiguous with a well wall of the fluid line.

11. (Previously Presented) The heating device according to claim 8 wherein at least one contact plate comprises a spring section configured to elastically press against the heating element and a well wall of the fluid line.

12. (Previously Presented) The heating device according to claim 1, further comprising at least one guiding element configured to guide the holding device when coupling the holding device to the fluid line.

13. (Previously Presented) The heating device according to claim 1 wherein the holding device is fabricated from an electrically insulating material.

14. (Currently Amended) A kit for a heating module for fluid lines, comprising:

a tubular fluid line having an inner space configured to communicate fluid flow;

and

a heating device mounted on the fluid line, wherein the heating device comprises:

a heating element;

a holding device, adapted to couple the heating element to the fluid line;

and

a projection, adapted to receive the heating element and be inserted in a well in the fluid line, wherein a well wall of the fluid line is contiguous to an inner space of the fluid line.

15. (Previously Presented) The kit according to claim 14, further comprising a thermally conducting element adapted to couple to the fluid line.

16. (Previously Presented) The kit according to claim 15 wherein the thermally conducting element at least partially surrounds an inner space of the fluid line.

17. (Currently Amended) A fluid line, comprising:

a tubular line section;

an inner space configured to communicate fluid flow; and

an outer wall having a well and at least one well wall contiguous to the inner space and configured to receive a holding device coupled to a heating element via a projection, the projection being adapted to receive the heating element and be inserted in the well.

18. (Previously Presented) The fluid line according to claim 17 wherein the well comprises an inner surface of the fluid line and an outer surface of the outer wall.

19. (Previously Presented) The fluid line according to claim 17 wherein a portion of the outer wall contiguous to the well is thicker with respect to the surrounding regions.

20. (Previously Presented) The fluid line according to claim 17 wherein a well opening is substantially radially parallel to the tubular line section.

21. (Previously Presented) The fluid line according to claim 17 wherein a well opening is substantially longitudinally parallel to the tubular line section.

22. (Previously Presented) The fluid line according to claim 17, operable to allow fluid flow contiguous to the well wall, wherein the well wall extends into the inner space of the fluid line.

23. (Currently Amended) The fluid line according to claim 17, wherein the ~~well wall comprises a projection protruding~~ protrudes into the inner space.

24. (Previously Presented) The fluid line according to claim 17 wherein the well wall comprises a partition, dividing the inner space.

25. (Previously Presented) The fluid line according to claim 17, further comprising a quadrangular section on the well in a direction substantially transverse to the mounting direction, wherein at least one flat side of the quadrangle faces the inner space.

26. (Previously Presented) The fluid line according to claim 17 wherein the inner surface of the outer wall facing the inner space of the fluid line has at least one flat section.

27. (Previously Presented) The fluid line according to claim 17 wherein the outer wall has at least one guide element by which the heating device can be guided when coupling to the fluid line.

28. (Previously Presented) The fluid line according to claim 27 wherein the guide element comprises at least one groove.

29. (Previously Presented) The fluid line according to claim 17, further comprising at least one weakened region, wherein limited deformation of the well can be realized by application of a force.

30. (Previously Presented) The fluid line according to claim 29 wherein the weakened region is groove shaped.

31. (Previously Presented) The fluid line according to claim 29 wherein the weakened region is formed in the outer surface of the outer wall.

32. (Previously Presented) The fluid line according to claim 29 wherein the weakened region overlaps the well in a substantially radial direction.

33. (Previously Presented) The fluid line according to claim 17 wherein the fluid line is fabricated from a thermally conducting metallic material.

34. (Previously Presented) The fluid line according to claim 17 wherein the well is separated from the inner space of the fluid line by the outer wall.

35. (Previously Presented) The fluid line according to claim 17 wherein the fluid line is formed as an angled element in which the fluid flow direction in operation can be deviated by a certain angle.

36. (Previously Presented) The fluid line according to claim 35 wherein the well is arranged in a front surface of the fluid line.

37. (Previously Presented) The fluid line according to claim 17 wherein the fluid line is formed as a tubular element.

38. (Previously Presented) The fluid line according to claim 17 wherein the fluid line is formed as a valve.

39. (Currently Amended) A kit for a heating module for fluid lines, with a tubular fluid line and with a heating device which can be mounted on the fluid line, wherein the fluid line comprises a tubular line section, an inner space configured to communicate fluid flow, and an outer wall having a well and at least one well wall contiguous to the inner space and configured to receive a holding device coupled to a heating element via a projection, the projection being adapted to receive the heating element and be inserted in the well.

40. (Currently Amended) A heating module with a fluid line having an outer wall and an inner space configured to communicate fluid flow, and with a heating device mounted on the fluid line, the said heating device comprising a heating element on the outer wall, a projection, and a holding device holding the heating element on the fluid line, wherein, the fluid line has a well that receives the projection of the heating device holding the heating element and at least one well wall is contiguous to the inner space of the fluid line.

41. (Previously Presented) The heating module according to claim 40 wherein the holding device is held by repeated positive locking on the fluid line.

42. (Previously Presented) The heating module according to claim 40 wherein a clamping section is latched into the well on the fluid line in the insertion direction of the projection.

43. (Previously Presented) The heating module according to claim 40 wherein the outer wall is plastically deformed at least in the region of the well.

44. (Currently Amended) A method for the manufacture of a heating module for a fluid line, having an inner space configured to communicate fluid flow and an outer wall, comprising:

inserting a heating element arranged on a projection of a heating device in a well contiguous to the inner space and outer wall of the fluid line.

45. (Previously Presented) The method according to claim 44, further comprising:

clamping a holding device firmly to the outer wall.

46. (Previously Presented) The method according to claim 44, further comprising:

preassembling the heating element and holding device to form a module unit; and mounting the module unit on the fluid line.

47. (Previously Presented) The method according to claim 44, further comprising:

deforming the fluid line with the inserted heating element and simultaneously pressing the heating element in the well.

48. (Previously Presented) The heating device according to claim 1 wherein the fluid line is for a crankcase venting system of an internal combustion engine.

49. (New) A heating device for a fluid line, comprising:
a heating element;
a holding device, adapted to couple the heating element to the fluid line; and
a projection, adapted to receive the heating element and be inserted in a well in the fluid line, wherein a well wall of the fluid line is contiguous to an inner space of the fluid line;

a PTC heating element;

at least two electrically conducting contact plates wherein the PTC heating element is at least partially positioned between the conducting contact plates;

a plug connector; and

at least two connector contact lugs coupling the conducting contact plates to the plug connector.

50. (New) The heating device according to claim 49 wherein the projection is formed by at least one electrically conducting contact plate.

51. (New) The heating device according to claim 49 wherein at least one side of the projection is formed by a contact plate, configured to be contiguous with a well wall of the fluid line.

52. (New) The heating device according to claim 49 wherein at least one contact plate comprises a spring section configured to elastically press against the heating element and a well wall of the fluid line.